## ABSTRACT OF THE DISCLOSURE

device, which comprises a surface layer that has incorporated therein at least one radioactive nuclide. surface layer is a self-assembled layer, particularly anchored SAM that is selected from the group consisting of monolayers or films anchored by siloxane, thiol, amine or phosphonate. The surface layer may be formed of a radioactive material that has been activated to induce radioactivity therein after its final formation. The device may comprise a chemically functionalized SAM radionuclides incorporating attached at the surface of the device. The device may be a temporary or permanent therapeutic implant, such as a stent. 347064\_1.DOC